1. A compound of formula (I):

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15 wherein:

R¹, R² and R³ each independently represent: hydrogen; an alkyl group which is unsubstituted or substituted by a hydroxy, alkoxy, alkylthio, amino, mono- or di-alkylamino, hydroxycarbonyl, alkoxycarbonyl, acylamino, carbamoyl or alkylcarbamoyl group; or a group of formula

$$-(CH_2)_n-R^6$$

wherein n is an integer from 0 to 4 and R^6 represents: a cycloalkyl group; a phenyl group which may be unsubstituted 25 or substituted by one or more halogen atoms or alkyl, hydroxy, alkylenedioxy, alkoxy, amino, mono- or dialkylamino, nitro, cyano or trifluoromethyl groups; or a 3 to 7-membered ring comprising from 1 to 4 heteroatoms selected from nitrogen, oxygen and sulphur, which ring may 30 be unsubstituted or substituted by one or more halogen atoms or hydroxy, phenyl, alkoxycarbonyl, amino, mono-alkylamino, di-alkylamino or hydroxycarbonyl groups or one or more alkyl groups which may in turn be unsubstituted or substituted by one or more halogen atoms or hydroxy, alkoxy, hydroxyalkoxy, 35 phenyl, alkoxycarbonyl, amino, mono- or di-alkylamino or hydroxycarbonyl groups; either R4 and R5 together with the nitrogen atom to which they are attached form a 3 to 7-membered ring comprising a total of from 1 to 4 heteroatoms selected from nitrogen, 40

oxygen and sulphur, which ring may be unsubstituted or substituted by one or more halogen atoms or hydroxy, oxoalkyl, carbamoyl, hydroxycarbonyl, alkoxycarbonyl, trifluoroacetyl, amino, mono- or di-alkylamino groups or an alkylene group, or one or more alkyl, alkenyl or alkynyl groups which may in turn be unsubstituted or substituted by one or more halogen atoms or hydroxy, alkoxy, hydroxyalkoxy, amino or mono- or di-alkylamino groups, or R⁴ and R⁵ independently represent hydrogen, an amidino group or an alkyl, alkenyl or alkynyl group which may be unsubstituted or substituted by one or more halogen atoms or hydroxy, alkoxy, alkylthio, amino, mono- or di-alkylamino groups, or

 $\ensuremath{\text{R}}^4$ represents hydrogen or an alkyl group and $\ensuremath{\text{R}}^5$ represents a group of formula

$$-(CH_2)_n-R^7$$

wherein n is an integer from 0 to 4 and R^7 represents: a cycloalkyl group which may be unsubstituted or substituted 20 by one or more halogen atoms or alkyl, hydroxy, alkylenedioxy, alkoxy, amino, mono- or di-alkylamino, alkylamido, nitro, cyano or trifluoromethyl groups; a phenyl group which may be unsubstituted or substituted by one or more halogen atoms or alkyl, hydroxy, alkylenedioxy, alkoxy, 25 amino, mono- or di-alkylamino, nitro, cyano or trifluoromethyl groups; or a 3 to 7-membered ring comprising from 1 to 4 heteroatoms selected from nitrogen, oxygen and sulphur, which ring may be unsubstituted or substituted by one or more halogen atoms or hydroxy, alkoxy, phenyl, 30 alkoxycarbonyl, amino, mono-alkylamino, di- alkylamino or hydroxycarbonyl groups or one or more alkyl groups which may be unsubstituted or substituted by one or more halogen atoms or hydroxy, alkoxy, hydroxyalkoxy, phenyl, alkoxycarbonyl, amino, mono- or di-alkylamino or hydroxycarbonyl groups; 35 or a pharmaceutically acceptable salt thereof.

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2. A compound according to claim 1 wherein R^1 represents hydrogen, a $C_1\text{-}C_4$ alkyl group or a group of formula

-(CH₂)_nR⁶

wherein n is 0, 1 or 2 and ${\bf R}^6$ represents phenyl, pyridyl or morpholinyl.

3. A compound according to claim 1 or claim 2 wherein R^2 and R^3 independently represent a C_1 - C_5 alkyl group, a $C_{3\text{--}10}$ cycloalkyl group, or a group of formula

-(CH₂)_nR⁶

wherein n is 0, 1 or 2 and ${\ensuremath{R}}^6$ represents an unsubstituted or substituted phenyl or pyridyl group.

- 4. A compound according to any one of claims 1 to 3 wherein \mathbb{R}^1 is a methyl, ethyl, propyl, pyridyl, pyridylmethyl, benzyl or N-morpholinylmethyl group; \mathbb{R}^2 is an ethyl, propyl, n-butyl, i-butyl, n-pentyl, methoxyethyl,
- substituted or unsubstituted benzyl or 3-pyridylmethyl group; and \mathbb{R}^3 is an ethyl, propyl or n-butyl group.
 - 5. A compound according to any one of claims 1 to 4 wherein the ring formed by R^4 , R^5 and the nitrogen atom to which they are attached is a piperidyl, piperazinyl,
- [1,4]diazepan-1-yl, morpholinyl, pyrazolyl, azetidinyl, diazabicyclo[2.2.1]hept-2-yl or hexahydro-pyrrolo[1,2-a] pyrazinyl group which is unsubstituted or substituted by one or more groups selected from a C₁-C₄ alkyl, C₂-C₄ alkenyl, carbamoyl, amino, di-C₁-C₄-alkylamino, (2-
- hydroxyethyl) methylamino, hydroxyl, 2,2,2-trifluoroethanoyl, 2,2,2-trifluoroethyl, formyl and hydroxyalkyl groups, alkoxyalkyl groups and hydroxyalkoxyalkyl groups wherein the alkyl moieties contain from 1 to 4 carbon atoms.
- 6. A compound according to claim 5 wherein R⁴ and R⁵
 together with the nitrogen atom to which they are attached represent a 4-hydroxypiperidyl, 4-carbamoylpiperidyl, 3-carbamoylpiperidyl, piperazinyl, 4-methylpiperazinyl, 4-

ethylpiperazinyl, 4-formylpiperazinyl, [1,4]-diazepan-1-yl, 4-methyl-[1,4]-diazepan-1-yl, 4-(2-hydroxyethyl)piperazinyl, 4-[2-(2-hydroxyethoxy)ethyl]piperazinyl, morpholinyl,

- aminopyrazolyl, diazabicyclo[2.2.1]hept-2-yl, 5-methyldiazabicyclo[2.2.1]hept-2-yl, 5-(2-hydroxyethyl)-diazabicyclo[2.2.1]hept-2-yl, 3(S)-methylpiperazinyl, 3(R)-methylpiperazinyl, (3R,5S)-3,5-dimethylpiperazinyl, (2R,5S)-2,5-dimethylpiperazinyl,
- 3-dimethylaminoazetidinyl, 3-dimethylaminomethylazetidinyl,
 4-allylpiperazinyl, 4-propylpiperazinyl, hexahydropyrrolo[1,
 2-a]pyrazin-2-yl,

(3R,5S)-3,4,5-trimethylpiperazinyl, 4-(2-methoxyethyl)-piperazinyl, 4-(2-hydroxyethyl)[1,4]diazepan-1-yl, 4-(2-

- hydroxy-1-methylethyl)piperazinyl, 4-(2-hydroxy-1,1-dimethylethyl)piperazinyl, 4-(2,2,2-trifluoroethyl)-piperazinyl, 4-(3-hydroxypropyl)piperazinyl, 4-(isopropyl)piperazinyl, 4-(2-ethoxyethyl)piperazinyl, 4-(2,2,2-trifluoroethanoyl)piperazinyl, 3-hydroxyazetidinyl, 3-(2-
- 20 hydroxyethyl) methylaminoazetidinyl or 4-(2-hydroxyethyl) piperidyl group.
 - 7. A compound according to any one of claims 1 to 3 wherein R^4 and R^5 independently represent hydrogen, a $C_1\text{-}C_4$ alkyl group which is unsubstituted or substituted by a
- hydroxy or dimethyl amino group, a propynyl group or an amidino group.
 - 8. A compound according to any one of claims 1 to 3 wherein R^4 is hydrogen or a $C_1\!-\!C_4$ alkyl group and R^5 represents a group of formula

-(CH₂)_nR⁷

wherein n is 0, 1, 2 or 3 and R^7 is a pyridyl, piperidyl, piperazinyl, morpholinyl, triazolyl, tetrazolyl,

pyrrolidinyl, 1-ethylaminocyclohex-1-yl, 1-diethylaminocyclohex-1-yl, 1-ethylaminocyclohept-1-yl, 1-diethylaminocyclohept-1-yl, 3,4-dimethoxyphenyl, 1-methyl-4-

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phenylpiperidin-4-yl, imidazoyl, 1-methylpiperid-4-yl, tetrahydrofuranyl, 2,2,6,6,-tetramethylpiperid-4-yl, 4-hydroxypiperid-4-yl, 1-acetamidocyclohept-1-yl, 1-methyl-3-azetidinyl or 4-methylpiperazin-1-yl group.
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- 9. A compound according to any one of claims 1 to 8 characterised in that it has an IC_{50} value for the inhibition of PDE 5 of less than 30 nM.
 - 10. A compound according to claim 1 which is 6-ethyl-8-[5-(4-methylpiperazine-1-sulphonyl)-2-
- propoxyphenyl]-6,9-dihydro-[1,2,4]triazolo[3,4-i]purin-5-one,
 - 8-[2-butoxy-5-(4-methylpiperazine-1-sulfonyl)phenyl]-6-ethyl-6,9-dihydro-[1,2,4]triazolo[3,4-i]purin-5-one,
 - 8-[5-(4-methylpiperazine-1-sulfonyl)-2-propoxyphenyl]-6-
- propyl-6,9-dihydro-[1,2,4]triazolo[3,4-i]purin-5-one,
 8-{5-[4-(2-hydroxyethyl)piperazine-1-sulphonyl]-2propoxyphenyl}-6-propyl-6,9-dihydro-[1,2,4]triazolo[3,4-i]purin-5-one,
 - 8-[5-(4-methyl-[1,4]diazepane-1-sulfonyl)-2-propoxyphenyl]-
- 6-propyl-6,9-dihydro-[1,2,4]triazolo[3,4-i]purin-5-one,
 6-butyl-8-{5-[4-(2-hydroxyethyl)piperazine-1-sulfonyl]-2-propoxyphenyl}-6,9-dihydro-[1,2,4]triazolo[3,4-i]purin-5-one.
 - 3-(5-oxo-6-propyl-6,9-dihydro-5H-[1,2,4]triazolo[3,4-
- i]purin-8-yl)-4-propoxy-N-pyridin-4-ylbenzenesulphonamide;
 8-[5-((S)-3-Methylpiperazine-1-sulfonyl)-2-propoxyphenyl]6-propyl-6,9-dihydro-[1,2,4]triazolo[3,4-i]purin-5-one,
 8-[5-((1S,4S)-5-Methyl-2,5-diazabicyclo[2.2.1]heptane-2-sulfonyl)-2-propoxyphenyl]-6-propyl-6,9-dihydro-[1,2,4]
- triazolo[3,4-i]purin-5-one,
 8-[5-(3-Dimethylaminomethylazetidine-1-sulfonyl)-2propoxyphenyl]-6-propyl-6,9-dihydro-[1,2,4]triazolo[3,4-i]
 purin-5-one,
 - 8-[5-((3R,5S)-3,5-Dimethylpiperazine-1-sulfonyl)-2-
- propoxyphenyl]-6-propyl-6,9-dihydro-[1,2,4]triazolo[3,4-i]

N-(3-Dimethylamino-2,2-dimethylpropyl)-3-(oxopropyl-6,9-dihydro-5<math>H-[1,2,4]triazolo[3,4-i]purin-8-yl)-4-propoxy benzenesulfonamide,

8-{5-[4-(2-Hydroxyethyl)-[1,4]diazepane-1-sulfonyl]-2-

5 propoxyphenyl}-6-propyl-6,9-dihydro-[1,2,4]triazolo[3,4-i]
purin-5-one,

8-{5-[4-(2-Hydroxy-1,1-dimethylethyl)piperazine-1-sulfonyl]-2-propoxyphenyl}-6-propyl-6,9-dihydro-[1,2,4]triazolo[3,4-i]purin-5-one,

6-Butyl-8-{5-[4-(2-hydroxy-1,1-dimethylethyl)piperazine-1-sulfonyl]-2-propoxyphenyl}-6,9-dihydro-[1,2,4]triazolo[3,4-i]purin-5-one

or a pharmaceutically acceptable salt thereof.

11. A process for preparing a compound as defined in any one of claims 1 to 10 which process comprises reacting a hydrazinopurine derivative of formula (II)

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(II)

wherein R^2 , R^3 , R^4 and R^5 are as defined in any one of claims 1 to 10, with a carboxylic acid of the general formula (III):

$$R^{1}$$
— $CO_{2}H$ (III)

wherein R¹ is as defined in any one of claims 1 to 10, or a reactive derivative thereof optionally in the presence of a polar aprotic solvent.

- 12. A process according to claim 11 wherein said reaction is carried out in the presence of an organic base.
- 13. A compound of formula (II):

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(II)

wherein R^2 , R^3 , R^4 and R^5 are as defined in claim 1. 14. A compound of formula (IV):

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$$\begin{array}{c|c} & & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & \\ & & & \\ & & \\ & & & \\ & & \\ & & \\ & & & \\ & & \\ & & & \\ & & \\ & & \\ & & \\ & &$$

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(IV)

wherein R^2 , R^3 , R^4 and R^5 are as defined in claim 1. 15. A compound of formula (V):

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$$\begin{array}{c|c}
O & & & & & \\
HN & & & & & \\
N & & & & & \\
N & & & & & \\
R^2 & & & & & \\
\end{array}$$

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wherein R^2 , R^3 , R^4 and R^5 are as defined in claim 1. 16. A compound of formula (VI):

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(VI)

wherein R^2 and R^3 are as defined in claim 1.

- 17. Use of a compound as defined in any one of claims 13 to 16 as an intermediate in the production of a compound as defined in claim 1.
 - 18. A process for preparing a compound as defined in any one of claims 1 to 10 which process comprises reacting a phenylxanthine of formula (IX):

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(IX)

30 wherein R^1 , R^2 and R^3 are as defined in any one of claims 1 to 10, with chlorosulphonic acid so as to obtain the sulphonyl chloride of formula (X):

(X)

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wherein R^1 , R^2 and R^3 are as defined in any one of claims 1 to 10, and reacting the sulphonyl chloride of formula (X) with an amine of formula (VIII):

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(VIII)

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wherein ${\ensuremath{R}}^4$ and ${\ensuremath{R}}^5$ are as defined in any one of claims 1 to 10.

- 19. A process according to claim 13 wherein the reaction forming the sulphonyl chloride of formula (X) is carried using an excess of the chlorosulphonic acid or using the chlorosulphonic acid as a solvent, and the conversion of the sulphonyl chloride of formula (X) is carried out in a polar aprotic solvent and in the presence of an organic base.
- 20. A pharmaceutical composition comprising as an active ingredient, at least one compound as defined in any one of claims 1 to 10 or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable excipient.
 - 21. A compound according to any one of claims 1 to 10 or a composition according to claim 20 for use in method of treatment of the human or animal body.
 - 22. Use of a compound as defined in any one of claims 1 to 10 in the manufacture of a medicament for the treatment

claim 1.

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of stable, unstable or variant angina, hypertension, pulmonary hypertension, congestive heart failure, renal failure, atherosclerosis, conditions of reduced blood vessel potency, peripheral vascular disease, vascular disorders,

- stroke, bronchitis, chronic asthma, allergic asthma, allergic rhinitis, glaucoma, male erectile dysfunction, female sexual dysfunction or diseases characterised by disorders of gut motility.
- 23. A method of treating a human or animal patient

 10 suffering from stable, unstable or variant angina,
 hypertension, pulmonary hypertension, congestive heart
 failure, renal failure, atherosclerosis, conditions of
 reduced blood vessel potency, peripheral vascular disease,
 vascular disorders, stroke, bronchitis, chronic asthma,

 15 allergic asthma, allergic rhinitis, glaucoma, male erectile
 dysfunction, female sexual dysfunction or diseases
 characterised by disorders of gut motility, which method
 comprises administering to said patient requiring such
 treatment an effective amount of a compound as defined in